XUNTOP XOP009

XUNTOP Digital Protractor Inclinometer Dual Laser Level User Manual

Model: XOP009

1. Introduction

Thank you for choosing the XUNTOP Digital Protractor Inclinometer Dual Laser Level. This device is designed for precise angle and slope measurements in various applications, including woodworking, construction, and DIY projects. It features a dual-axis measurement capability, dual LCD displays, and integrated laser lines for enhanced accuracy and versatility.

1.1 Key Features

- Large Double LCD Screen for clear, real-time data display.
- Dual Axis Measurement (X-axis and Y-axis) for comprehensive angle detection.
- Integrated Dual Laser Level with vertical and horizontal lines for precise alignment.
- Type-C Charging Interface for convenient power replenishment.
- Strong Magnetic Suction at the bottom for secure attachment to metal surfaces.
- Multiple Measurement Units: degrees (°), percentage (%), mm/m, in/ft.

Figure 1: The XUNTOP Digital Protractor Inclinometer being used in different measurement scenarios, including woodworking and shelf leveling.

2. Setup

2.1 Unpacking the Device

Carefully remove all components from the packaging. Ensure all items listed below are present:

- 1 x Digital Inclinometer
- 1 x USB Type-C Cable
- 4 x Double-sided Tape
- 1 x Storage Bag
- 1 x User Manual (this document)

Figure 2: The complete package contents, including the inclinometer, Type-C cable, double-sided tape, storage bag, and user manual.

2.2 Charging the Device

Before first use, fully charge the inclinometer. Connect the provided USB Type-C cable to the device's charging port and plug the other end into a standard USB power adapter (not included) or a computer USB port. The battery indicator on the display will show charging status.

Figure 3: The device being charged via its Type-C port, highlighting its portability.

2.3 Initial Power On

Press and hold the power button (usually the central button) for a few seconds until the LCD screens illuminate. The device will perform a brief self-check before displaying the current angle readings.

3. Operation

3.1 Power On/Off

- **Power On:** Long press the power button.
- **Power Off:** Long press the power button again. The device may also have an auto-off feature after a period of inactivity to conserve battery.

3.2 Display Overview

The device features dual LCD screens providing comprehensive information. Refer to the diagram below for an explanation of the display elements.

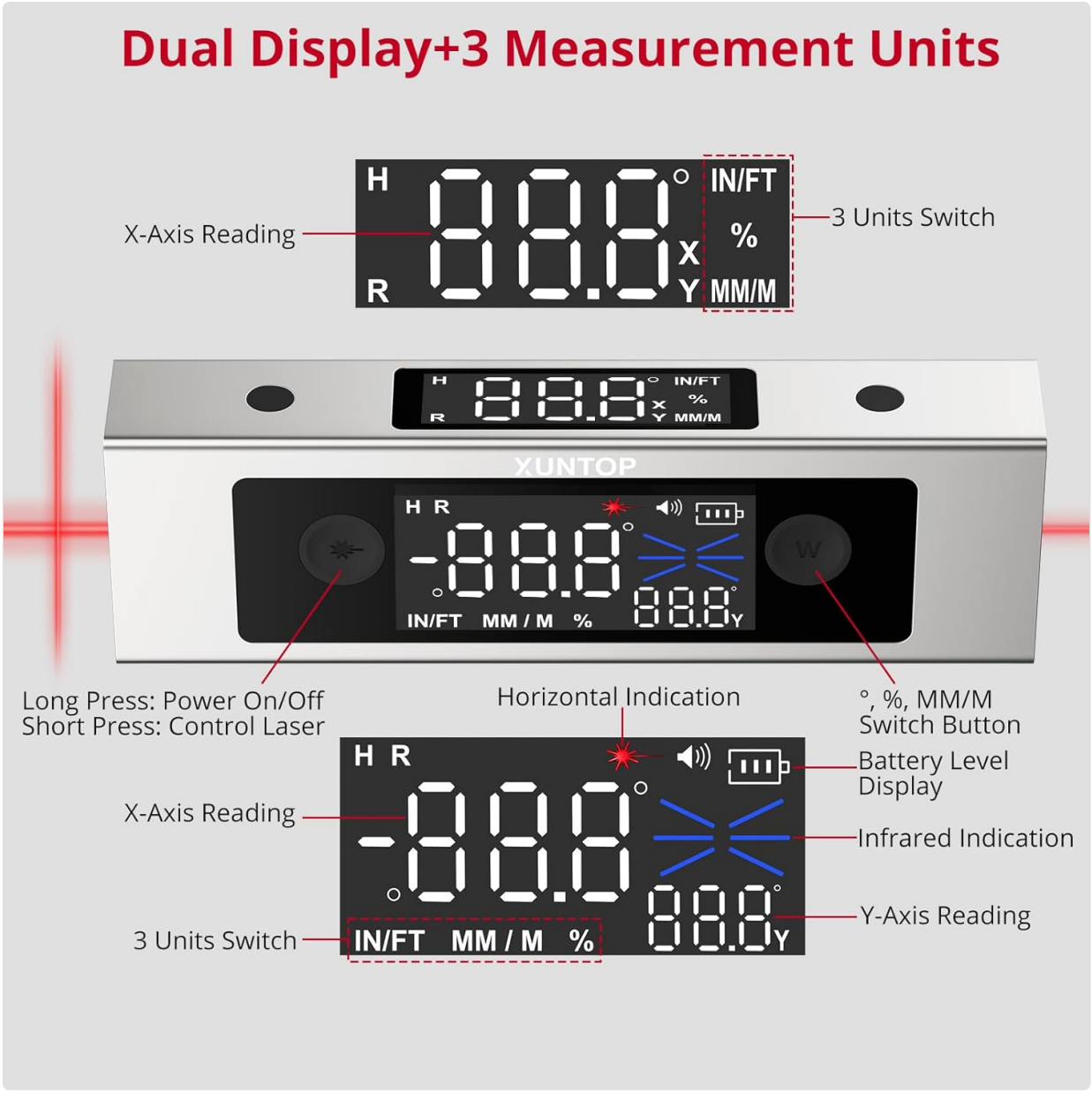

Figure 4: Detailed view of the dual LCD display, showing X-axis and Y-axis readings, unit switches, horizontal indication, battery level, and infrared indication.

3.3 Single Axis Measurement

For single-axis measurements, place the device on the surface you wish to measure. The display will show the angle relative to the horizontal plane. The measuring range for single axis is 4*90°.

3.4 Dual Axis Measurement

The inclinometer can simultaneously display angles for both the X-axis and Y-axis. This is useful for checking the levelness and plumb of surfaces in two dimensions. The dual-axis measuring range is ±40°.

Figure 5: Illustration of single-axis and dual-axis measurement modes, demonstrating how the device measures angles along X and Y axes.

3.5 Laser Level Function

The device includes a dual laser level feature. Short press the laser control button (indicated on the display diagram) to activate the horizontal and vertical laser lines. These lasers provide clear, sharp lines for alignment tasks.

3.6 Unit Conversion

The inclinometer supports multiple measurement units. Use the unit switch button (indicated on the display diagram) to cycle through degrees (°), percentage (%), mm/m, and in/ft as needed for your application.

3.7 Calibration

The device supports auto-calibration. For optimal accuracy, it is recommended to perform calibration periodically or if you suspect inaccurate readings. Refer to the on-screen prompts or a dedicated calibration section in the full manual for detailed steps.

3.8 Magnetic Base Usage

The strong magnetic base allows the inclinometer to be securely attached to metal surfaces, freeing your hands for other tasks during measurement. This is particularly useful for working with metal frames, pipes, or

machinery.

Figure 6: The device demonstrating its strong magnetic suction, allowing for hands-free angle measurements on metal surfaces.

4. Maintenance

4.1 Cleaning

Wipe the device with a soft, dry cloth. Do not use abrasive cleaners, solvents, or immerse the device in water. Ensure the laser apertures and display screens are kept clean for optimal performance.

4.2 Storage

When not in use, store the inclinometer in its provided storage bag in a cool, dry place, away from direct sunlight and extreme temperatures. Avoid storing it in environments with high humidity or dust.

4.3 Battery Care

To prolong battery life, avoid fully discharging the device frequently. If storing for an extended period, charge the battery to approximately 50% and recharge every few months.

5. Troubleshooting

5.1 Common Issues

- **Device does not power on:** Ensure the battery is charged. Connect to a Type-C charger and try again.
- **Inaccurate readings:** Perform a calibration as described in the full user manual. Ensure the measurement surface is stable and free from vibrations.
- **Laser not visible:** Check if the laser function is activated. Ensure the environment is not too bright, which can diminish laser visibility.
- **Display is blank or frozen:** Try resetting the device by holding the power button for an extended period (e.g., 10-15 seconds) or allowing the battery to fully discharge and then recharging.

6. Specifications

Below are the technical specifications for the XUNTOP Digital Protractor Inclinometer Model XOP009.

Figure 7: Visual representation of key specifications including accuracy, resolution, battery capacity, IP rating, and physical dimensions.

Feature	Specification

Feature	Specification
Model Number	XOP009
Single Axis Measuring Range	4*90°
Dual Axis Measuring Range	±40°
Accuracy	±0.2°
Resolution	0.1°
Battery Capacity	400mAh
Charging Interface	Type-C
Protection Rating	IP54
Dimensions	118mm x 35mm x 20mm (approx. 4.64in x 1.38in x 0.79in)
Item Weight	140 g
Manufacturer	XUNTOP
Country of Origin	China

7. Warranty and Support

7.1 Warranty Information

This product comes with a standard manufacturer's warranty. Please refer to the warranty card included in your package or contact your retailer for specific details regarding warranty duration and terms. Keep your purchase receipt as proof of purchase.

7.2 Customer Support

For technical assistance, troubleshooting, or any questions regarding your XUNTOP Digital Protractor Inclinometer, please contact the retailer or visit the official XUNTOP website for support resources. Ensure you have your model number (XOP009) and purchase details ready when contacting support.